

Additional Notes: If the work on the Yutu Debris pile is subcontracted then labor and some of the maintenance and spare parts, POL, and equipment (such as a loader) would be provided by the contractor.

Table 18 Marpi Landfill – Planned Improvements

NAME	Marpi Landfill	
OPERATOR	DPW	
LOCATION	Marpi Point Saipan	
BUILDING & GROUNDS REPAIR/IMPROVEMENTS	Generators	Est. Price*: \$70,000 Total Units: 2 Total Price: \$140,000
	Scales	Est. Price: \$225,000 Total Units: 2 Total Price: \$500,000
	Cell 3 (multi-step cell construction)	Est. Total Price: \$10,000,000**
	Disaster Debris Processing (“Back 40”) labor - 2 people 4 years	Est. Total Price: \$580,397
	Vegetated Submerged Bed Rehabilitation and Expansion	Est. Total Price: \$850,000
	Cell 2 Stormwater Basin	Est. Total Price: 850,000
	Monitoring Well Rehabilitation	Est. Total Price:
	Alternative Energy	Est. Price: \$2,500,000
	Disaster debris processing: Multi shredder	Est. Price \$800,000
	NEW / REPLACEMENT EQUIPMENT	Disaster debris processing: Water tank for disaster debris Processing
Disaster debris processing: Generator		Est. Price: \$80,000
Disaster debris processing: POL		Est. Price: \$30,000
Disaster debris processing: Spare parts/maintenance		Est. Price: \$30,000
Disaster debris processing: Loader with attachments		Est. Price: \$285,000
Assistant to the Solid Waste Manager (Contract and Project Management)		Est. Price: \$164,000 Total years: 3-4
NEW PERSONNEL	If the work on the Yutu Debris Pile is contracted to a third party then no additional DPW staff is needed.	
TRAINING AND STAFF DEVELOPMENT	Disaster debris in the “back 40” is mostly wood waste (pallets, furniture, dimensional lumber)	
	Dimensional lumber and various engineered wood products). The shredder	

<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	will also manage bulky waste like mattresses, box springs, and bulky furniture.		
	Alternative Daily Cover will be created from ground material.		
<b>NEW SOLID WASTE SOURCES</b>			
<b>NEW SOLID WASTE ASPECTS</b>			

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

\*\* Cell 3 Construction may not begin for another 8 or more years. Decreases in projected tonnage and improved compaction density at the landfill has allowed Cell One to remain open longer than previously predicted.

Table 19 Lower Base CCC and Recycling Center – Planned Improvements

NAME	Lower Base Transfer Station	
<b>OPERATOR</b>	DPW	
<b>LOCATION</b>	Lower Base Saipan	
<b>BUILDING &amp; GROUNDS REPAIR/IMPROVEMENTS</b>	Cover for Used Electronics Storage Area	Est. Total Price*: \$200,000
	Contracted Recycling Operations	Est. Price: \$200,000 Total Units (Years): 4 Total Price: \$800,000
	Cover for Metals Processing Area	Est. Total Price: \$125,000
	Cover for Tire Processing	Est. Total Price*: \$200,000
	Perimeter Fence Repair	Est. Total Price: \$300,000
	Bay Repair and Tip Floor Fire Suppression Systems Repair	Est. Total Price: 600,000
	Electrical Hookups – Tire Baler and Metal Baler	Est. Total Price: 100,000
	Commodity Shipping: Backlogged Materials	Est. Total Price: \$500,000
<b>NEW EQUIPMENT</b>	Magnet and Backpack Blower for Roadways	Est. Total Price: \$2,000
	Horizontal Baler (metal and plastic)	Est. Total Price: \$170,000
	Horizontal Baler (tires)	Est. Total Price: \$170,000
	Roll-off Containers	Est. Price: \$41,666 Total Units: 6 Total Price: \$250,000
	Used Oil “Sniffer” (see used oil CA report)	Est. Total Price: \$800
	Skid loader with clamshell bucket	Est. Total Price: \$80,000
	Cardboard Shredder	Est. Price: \$250,000 Total Units: 1
	Tire Shredder Repair	Est. Price: \$75,000
	Bulk Electric Sprayer – for Spraying Vegetable Oil on Compost from Bulk Drum	Est. Price: \$8,000 Total Units: 1 Total Price:
	Degausser machine	Est. Total Price: \$10,000
	Secondary Containment Pallets for HHW including Used Motor Oil	Est. Price: 300 Total Units: 8 Total Price: \$2,400
	Pyrolysis Equipment	Est. Price: Total Units: TBD

		Total Price:
	Scales and Software/Computer	Est. Price: \$250,000 Total Units: 2 Total Price: \$500,000
	Cross shredder (confidential paper document destruction) – meets stringent standards for destruction	Est. Total Price: \$150,000
	Cover for HHM and Used Electronics	Est. Total Price: \$200000
	Bay Repair including oil/water separator	Est. Total Price: \$600,000
	Sprinkler System Repair	
	Perimeter Fence Repair	Est. Total Price: \$300,000
	Commodity Shipping: backlog	
<b>NEW PERSONNEL</b>	2 FTE (OPD), Running pyrolysis unit and Degausser, and cardboard shredder, used Oil separation and Vegetable Oil bulking	Est. Total Price: \$164,770
	Assistant to Director	Est. Total Price: \$500,000
<b>TRAINING AND STAFF DEVELOPMENT</b>	Two People 2 years	Est. Total Price: \$5,000
<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	Pyrolysis machine to manufacture petroleum products and/or Diesel from plastic containers.	
	Cardboard shredder for composting cardboard and other paper.	
	“Sanitized” electronic media available for recycling.	
	Destroyed confidential documents – available for composting.	
	Tire Derived Aggregate – replaces aggregate from CNMI or off-island locations.	
	Vegetable oils composted.	
	Roof over used electronics improves acceptability and recyclability.	
<b>NEW SOLID WASTE SOURCES</b>		
<b>NEW SOLID WASTE ASPECTS</b>		

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

\*\* Degausser may be held by Office of Information Technology rather than DPW, sanitized electronics will then come to Lower Base.

**Note: metal baler may be too big for plastic containers – talk to manufacturers. Covers protect the equipment and workers. Lower Base uses diesel generators to run metal balers and the tire baler; getting these machines hooked to the grid would eliminate generators.**

Table 20 Kagman CCC and Recycling Center – Planned Improvements

NAME		Kagman CCC and Recycling Center – New Site	
OPERATOR	DPW		
LOCATION	Kagman Saipan		
PROPOSED DATE TO COMMENCE FACILITY OPERATIONS	October 1, 2023		
BUILDING & GROUNDS IMPROVEMENTS	Cover for Recycling and Re-use Area	Est. Total Price*: \$250,000	
NEW EQUIPMENT	POL	Est. Total Price: \$5,000	
	Misc. smaller containers, hand tools, signs need for receiving recyclables	Est. Total Price*: \$20,000	
	Roll-off Boxes for Recyclables	Est. Total Price*: \$40,000	
NEW PERSONNEL	Two People	Est. Total Price: \$164,770 Total People: Total Price	
TRAINING AND STAFF DEVELOPMENT	Two People 2 years	Est. Total Price: \$5,000	
NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE	Approximately the same suite of materials addressed at Lower Base – more convenient location		
NEW SOLID WASTE SOURCES			
NEW SOLID WASTE ASPECTS			

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Conceptualized as MSW and MSW Recycling – could serve as Redemption Center if Bottle Bill passes.

This price does not include facility construction.

Note: this price for construction does not include the full price of the CCC’s design and construction.

Table 21 As Gorno CCC and Recycling Center – Planned Improvements

NAME	As Gorno CCC Site		
OPERATOR	DPW		
LOCATION	As Gorno - Saipan		
PROPOSED DATE TO COMMENCE FACILITY OPERATIONS	October 1, 2023		
BUILDING & GROUNDS REPAIR	Cover for Recycling and Re-use Area	Est. Total Price*: \$250,000	
NEW EQUIPMENT	POL	Est. Total Price: \$5,000	
	Misc. smaller containers, hand tools, signs need for receiving recyclables	Est. Total Price*: \$20,000	
	Receiver Boxes for Recyclables	Est. Total Price*: \$40,000	
NEW PERSONNEL	Two People 2 years	Est. Total Price: \$164,770 Total People: Total Price	
TRAINING AND STAFF DEVELOPMENT	Two People 2 years	Est. Total Price: \$5,000	
NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE	Same suite of materials addressed at Lower Base – more convenient location		
NEW SOLID WASTE SOURCES			
NEW SOLID WASTE ASPECTS			

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Conceptualized as MSW and MSW Recycling – could serve as Redemption Center if Bottle Bill passes.

Table 22 Kagman Organics Processing Site– Planned Improvements

NAME	Kagman Organics Processing Site		
OPERATOR	Division of Agriculture		
LOCATION	Kagman - Saipan		
PROPOSED DATE TO COMMENCE FACILITY OPERATIONS	October 1, 2023		
BUILDING & GROUNDS REPAIR			
NEW EQUIPMENT	POL		Est. Total Price: \$25,000
	Truck (After current truck is sold – current truck is too small for existing 8,000 lb chipper)		Est. Total Price*: \$60,000
	Spare Parts		Est. Total Price*: \$60,000
	Magnet with exit Conveyor		Est. Total Price*: \$68,000
NEW PERSONNEL	Two People		Est. Total Price: \$164,770 Total People: Total Price
TRAINING AND STAFF DEVELOPMENT	Two People 2 years		Est. Total Price: \$5,000
NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE	Compost and mulch will be generated as well as ADC for the landfill.		
NEW SOLID WASTE SOURCES	Organics		
NEW SOLID WASTE ASPECTS			

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Table 23 Saipan Organics Processing Site – Planned Improvements

NAME	Saipan Organics Processing Site		
<b>OPERATOR</b>	DPW		
<b>LOCATION</b>	As Gorno - Saipan		
<b>PROPOSED DATE TO COMMENCE FACILITY OPERATIONS</b>	October 1, 2023		
<b>BUILDING &amp; GROUNDS REPAIR</b>	Equipment shed to secure equipment	Est. Total Price*: \$150,000	
<b>NEW EQUIPMENT</b>	POL	Est. Total Price: \$25,000	
	Loader with multi-shredder and log/stump splitter	Est. Total Price*: \$550,000	
	Spare Parts	Est. Total Price*: \$40,000	
	Hand Tools	Est. Total Price*: \$2,000	
<b>NEW PERSONNEL</b>	Two People	Est. Total Price: \$164,770 Total People: Total Price	
<b>TRAINING AND STAFF DEVELOPMENT</b>	Two People 2 years	Est. Total Price: \$5,000	
<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	Compost and mulch will be generated as well as ADC for the landfill.		
<b>NEW SOLID WASTE SOURCES</b>	Organics		
<b>NEW SOLID WASTE ASPECTS</b>			

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.



Table 24 Tinian Atgidon Landfill – Planned Improvements

NAME	Atgidon Landfill	
OPERATOR	Tinian DPW	
LOCATION	Atgidon - Tinian	
PROPOSED DATE TO COMMENCE FACILITY OPERATIONS	October 1, 2023	
BUILDING & GROUNDS REPAIR	New Site	Est. Total Price*:
EQUIPMENT: NEW AND/OR REPIARED	POL	Est. Total Price: \$
	Excavator	Est. Total Price*: \$
	Spare Parts	Est. Total Price*: \$
	Wheel Loader	Est. Total Price*: \$
	Dump Truck	Est. Total Price*: \$
NEW PERSONNEL	Two People	Est. Total Price: \$
TRAINING AND STAFF DEVELOPMENT	Two People 2 years	Est. Total Price: \$
NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE	No new materials to be addressed	
NEW SOLID WASTE SOURCES		
NEW SOLID WASTE ASPECTS		

A. \*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Table 25 Puntan Diablo Landfill – Operating Site – Planned Improvements

<b>NAME</b>		<b>Puntan Diablo Landfill – Operate as State-Owned SCEL</b>	
<b>OPERATOR</b>	Tinian DPW		
<b>LOCATION</b>	Puntan Diablo Area - Tinian		
<b>PROPOSED DATE TO COMMENCE FACILITY OPERATIONS</b>	October 1, 2023 – 10 Year Planned Operating Life – Closes when Atgidon SCEL is ready to receive wastes.		
<b>BUILDING &amp; GROUNDS REPAIR</b>	Note costs will likely involve closing some ground while prepping other areas for SCEL functions / SCEL permitting.	Est. Total Price*: \$800,000 – Assessment and SCEL Design – Construction costs are unknown until Design is complete.	
<b>NEW EQUIPMENT</b>	POL	Est. Total Price New*: \$	
	Dump Truck	Est. Total Price Repair*: \$30,000	
	Excavator	Est. Total Price New*: \$140,000	
	Wheel Loader	Est. Total Price New*: \$120,000	
	Spare Parts/Maintenance	Est. Total Price New*: \$10,000	
<b>NEW PERSONNEL</b>	Two to Three People	Est. Total Price: \$ Total People: Total Price	
<b>TRAINING AND STAFF DEVELOPMENT</b>	Two People 2 years	Est. Total Price: \$	
<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	No new materials		

\*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Table 26 Tinian Hardfill Site – Planned Improvements

<b>NAME</b>	<b>Tinian Hardfill Site</b>	
<b>OPERATOR</b>	Tinian Municipality	
<b>LOCATION</b>	Tinian	
<b>PROPOSED DATE TO COMMENCE FACILITY OPERATIONS</b>	March 1, 2024	
<b>BUILDING &amp; GROUNDS REPAIR</b>		Est. Total Price*:
<b>NEW EQUIPMENT</b>	Shared from other Sites	Est. Total Price: \$
		Est. Total Price*: \$
		Est. Total Price*: \$
<b>NEW PERSONNEL</b>	Shared from other sites	Est. Total Price: \$ Total People: Total Price
<b>TRAINING AND STAFF DEVELOPMENT</b>	Personnel shared from other sites	Est. Total Price: \$
<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	Previously, most hardfill materials would go to the open dump.	

B. \*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Table 27 Tinian Recycling Center – Planned Improvements

<b>Tinian Recycling Center and Recycling Center Expansion</b>		
<b>NAME</b>		
<b>OPERATOR</b>	Tinian DPW	
<b>LOCATION</b>	Atgidon - Tinian	
<b>PROPOSED DATE TO COMMENCE FACILITY OPERATIONS</b>	October 1, 2023	
<b>BUILDING &amp; GROUNDS REPAIR</b>		Est. Total Price*: TBD
<b>NEW EQUIPMENT</b>	POL	Est. Total Price: \$
	Excavator with attachments (or similar equipment) that can manage scrap metal and vehicles	Est. Total Price*: \$
	Spare Parts	Est. Total Price*: \$
	Cardboard Shredder	Est. Total Price*: \$
<b>NEW PERSONNEL</b>	Two People	Est. Total Price: \$ Total People: Total Price
<b>TRAINING AND STAFF DEVELOPMENT</b>	Two People 2 years	Est. Total Price: \$
<b>NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE</b>	Derelict cars/ scrap metal	

C. \*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.

Table 28 Tinian Organics Processing Site – Planned Improvements

NAME	Tinian Compost Site		
OPERATOR	Tinian DPW		
LOCATION	Atgidon - Tinian		
PROPOSED DATE TO COMMENCE FACILITY OPERATIONS	October 1, 2023		
BUILDING & GROUNDS REPAIR	Equipment shed and break room (portable restroom to be used on site)	Est. Total Price*: 240,000	
NEW EQUIPMENT	Wheel loader with attachment	Est. Total Price: \$81,000	
	Woodchipper (new or repaired)	Est. Total Price*: \$80,000	
	POL	Est. Total Price*: \$5,000	
	Log/stump splitter	Est. Total Price*: \$25,000	
	Exit Conveyor with Magnet	Est. Total Price*:\$	
NEW PERSONNEL	Two People	Est. Total Price: \$	
TRAINING AND STAFF DEVELOPMENT	Two People 2 years	Est. Total Price: \$	
NEW MATERIALS TO BE ADDRESSED/NEW PRODUCTS MADE			
	As of Aug. 2023, organics are not processed only staged		
NEW SOLID WASTE SOURCES			
NEW SOLID WASTE ASPECTS	Compost		

D. \*Estimated Price is FOB Saipan including ancillary equipment needed for identified task/purpose.